VOLUME AUTHOR INDEX

Aalberts, D. P., 3212
Aartsma, T. J., 2483
Abreu, M. S. C., 386
Abu-Arish, A., 2005
Abu-Hamdah, R., 1337
Ackerman, C. J., 489
Aggarwal, A. K., 3317
Ahern, C. A., 220, 942
Ahmad, A., 3307
Ahmad, R., 2460
Ajtai, K., 1047
Akeson, M., 967
Akopova, I., 2450
Al-Azzam, W., 3285
Albernaz, F. P., 3894
Albuquerque, S. C., 3894
Alcaraz, J., 2071
Allen, P., 942
Allen, P. D., 2655
Allen, T. W., 2159
Almeida, F. C. L., 3894
Alp, E. E., 3767
Alsammarae, D., 220
Alvarez, O., 2306, 4167
Amadei, A., 2805
Åman, K., 102
Amir R., 2181, 2700
Amit, R., 2467
Anbazhagan, V., 3037
Andemariam, B., 116
Anderluh, G., 2382
Andersen, H. S., 2273
Andersson, K., 2264
Andersen, O. S., 2080
Anderson, R. R., 4023
Andrienko, T., 3436
Anobom, C. D. 3894
Antia, M., 3792
Antonenko, Y. N., 1031
Antosiewicz, J. M., 750
Antzutkin, O. N., 3326
Aon, M. A., 2734
Aoyama, M., 709
Appaix, F., 3436
Arakawa, H., 2460
Arellano, J. B., 1161
Armand, R., 1291
Armstrong, K. M., 238
Arnold, E., 3547
Artzner, F., 3123
Aschi, M., 2805
Ashcroft, F. M., 2345
Assfalg, M., 3917
Ataka, K., 466
Ataka, M., 3299
Austin, R. H., 623
Avdonin, V., 2969
Azoulay, J., 1960

Bacigalupo, J., 4167
Baciocchi, E., 3883
Baker, N. A., 2234
Balaji, J., 1977
Balbach, J. J., 3326
Balbo, A., 4062
Baldini, G., 588
Baloche, E., 2058
Baptista, A. M., 1628
Barabash, Y. M., 1146
Barakat, A. I., 4087
Baran, I., 1470
Barocas, V. H., 4102
Barreca, M. L., 1450
Bartucci, R., 1025
Bass, R., 2357
Bassi, R., 2508, 2517
Baştuğ, T., 2871
Bates, M., 2366
Batu, T., 2159
Bayas, M. V., 2223
Beebe, S. J., 2709
Behrends, J. C., 612
Benoliel, A-M., 2058
Ben-Shaul, A., 1616, 2242
Berezetska, N. M., 1146
Berezhkovskii, A. M., 787
Berg, O. G., 154
Bergo, V., 960
Berkowitz, M. L., 3743
Bernacchi, S., 643
Bernard, S., 3414
Bernet, S., 1344
Berney C., 3992
Bers, D. M., 4157
Bertini, I., 3917
Bertini, I., 545
Bertram, R., 2852
Bezanilla, F., 3703
Bhanot, G., 124
Bhatia, S. K., 2671
Bikson, M., 2099
Birrell, G. B., 3264
Biswas, M. E., 509
Bitensky, M. W., 623
Blasie, J. K., 2393
Bloom, K. S., 3529
Bond, S. D., 2234
Bonev, B. B., 2382
Bongrand, P., 2058
Borbat, P. P., 3364
Borejdo, J., 2450
Borghi, N., 1734
Borisenko, V., 612, 1464
Borocci, S., 578
Bossa, C., 1876
Bostick, D., 3743
Boucher, F., 3123
Božič, B., 1486
Braun, C. S., 1114
Briggs, J. M., 1450
Bringezu, F., 3111
Brochard-Wyart, F., 1734
Brockman, J. M., 326
Brodsky, B., 501
Brown, E. B., 1317, 2599
Brown, F. L. H., 842
Brown, L. S., 1202
Broyde, S., 2137
Bryant, R. B., 558
Bryon, O., 489
Budker, V. G., 1124
Buescher, E. S., 2709
Bugrim, A., 1580
Bundschuh, R., 1606, 2831
Burghardt, T. P., 1047
Burns, M., 2366
Buscemi, L., 2071
Bustamante, C., 733

Caffarri, S., 2517
Cahalan, M. D., 922, 2293
Cai, Y-D., 3257
Callender, R. H., 1909
Campbell, K. S., 3807
Campo, M. L., 2981
Canavier, C. C., 2919
Cannon, B., 3777
Cannone, F., 588
Cao, A., 1867
Cao, W., 1867
Capener, C. E., 2345
Carbonera, D., 2805
Carl, P., 533
Carlon, P. L., 687
Carloni, P., 2207, 2282
Carlsson, A. E., 2907
Carugo, O., 2553
Cattaneo, A., 2282
Causgrove, T. P., 3874
Cereghetti, G. M., 1985
Ceruso, M-A., 1876
Cevc, G., 1010

VOLUME AUTHOR INDEX

Aalberts, D. P., 3212
Aartsma, T. J., 2483
Abreu, M. S. C., 386
Abu-Arish, A., 2005
Abu-Hamdah, R., 1337
Ackerman, C. J., 489
Aggarwal, A. K., 3317
Ahern, C. A., 220, 942
Ahmad, A., 3307
Ahmad, R., 2460
Ajtai, K., 1047
Akeson, M., 967
Akopova, I., 2450
Al-Azzam, W., 3285
Albernaz, F. P., 3894
Albuquerque, S. C., 3894
Alcaraz, J., 2071
Allen, P., 942
Allen, P. D., 2655
Allen, T. W., 2159
Almeida, F. C. L., 3894
Alp, E. E., 3767
Alsammarae, D., 220
Alvarez, O., 2306, 4167
Amadei, A., 2805
Åman, K., 102
Amir R., 2181, 2700
Amit, R., 2467
Anbazhagan, V., 3037
Andemariam, B., 116
Anderluh, G., 2382
Andersen, H. S., 2273
Andersson, K., 2264
Andersen, O. S., 2080
Anderson, R. R., 4023
Andrienko, T., 3436
Anobom, C. D. 3894
Antia, M., 3792
Antonenko, Y. N., 1031
Antosiewicz, J. M., 750
Antzutkin, O. N., 3326
Aon, M. A., 2734
Aoyama, M., 709
Appaix, F., 3436
Arakawa, H., 2460
Arellano, J. B., 1161
Armand, R., 1291
Armstrong, K. M., 238
Arnold, E., 3547
Artzner, F., 3123
Aschi, M., 2805
Ashcroft, F. M., 2345
Assfalg, M., 3917
Ataka, K., 466
Ataka, M., 3299
Austin, R. H., 623
Avdonin, V., 2969
Azoulay, J., 1960

Bacigalupo, J., 4167
Baciocchi, E., 3883
Baker, N. A., 2234
Balaji, J., 1977
Balbach, J. J., 3326
Balbo, A., 4062
Baldini, G., 588
Baloche, E., 2058
Baptista, A. M., 1628
Barabash, Y. M., 1146
Barakat, A. I., 4087
Baran, I., 1470
Barocas, V. H., 4102
Barreca, M. L., 1450
Bartucci, R., 1025
Bass, R., 2357
Bassi, R., 2508, 2517
Baştuğ, T., 2871
Bates, M., 2366
Batu, T., 2159
Bayas, M. V., 2223
Beebe, S. J., 2709
Behrends, J. C., 612
Benoliel, A-M., 2058
Ben-Shaul, A., 1616, 2242
Berezetska, N. M., 1146
Berezhkovskii, A. M., 787
Berg, O. G., 154
Bergo, V., 960
Berkowitz, M. L., 3743
Bernacchi, S., 643
Bernard, S., 3414
Bernet, S., 1344
Berney C., 3992
Bers, D. M., 4157
Bertini, I., 3917
Bertini, I., 545
Bertram, R., 2852
Bezanilla, F., 3703
Bhanot, G., 124
Bhatia, S. K., 2671
Bikson, M., 2099
Birrell, G. B., 3264
Biswas, M. E., 509
Bitensky, M. W., 623
Blasie, J. K., 2393
Bloom, K. S., 3529
Bond, S. D., 2234
Bonev, B. B., 2382
Bongrand, P., 2058
Borbat, P. P., 3364
Borejdo, J., 2450
Borghi, N., 1734
Borisenko, V., 612, 1464
Borocci, S., 578
Bossa, C., 1876
Bostick, D., 3743
Boucher, F., 3123
Božič, B., 1486
Braun, C. S., 1114
Briggs, J. M., 1450
Bringezu, F., 3111
Brochard-Wyart, F., 1734
Brockman, J. M., 326
Brodsky, B., 501
Brown, E. B., 1317, 2599
Brown, F. L. H., 842
Brown, L. S., 1202
Broyde, S., 2137
Bryant, R. B., 558
Bryon, O., 489
Budker, V. G., 1124
Buescher, E. S., 2709
Bugrim, A., 1580
Bundschuh, R., 1606, 2831
Burghardt, T. P., 1047
Burns, M., 2366
Buscemi, L., 2071
Bustamante, C., 733

Caffarri, S., 2517
Cahalan, M. D., 922, 2293
Cai, Y-D., 3257
Callender, R. H., 1909
Campbell, K. S., 3807
Campo, M. L., 2981
Canavier, C. C., 2919
Cannon, B., 3777
Cannone, F., 588
Cao, A., 1867
Cao, W., 1867
Capener, C. E., 2345
Carbonera, D., 2805
Carl, P., 533
Carlon, P. L., 687
Carloni, P., 2207, 2282
Carlsson, A. E., 2907
Carugo, O., 2553
Cattaneo, A., 2282
Causgrove, T. P., 3874
Cereghetti, G. M., 1985
Ceruso, M-A., 1876
Cevc, G., 1010

Chalmers, J. J., 2638
Chandrashekar, I. R., 655
Chanturiya, A., 1750
Chappuis-Flament, S., 4033
Charnet, P., 2416
Chau, P-L., 2338
Chayen, N. E., 1218
Chen, C-C., 1902
Chen, C-M., 1902
Chen, F-M., 432
Chen, F-Y., 3751
Chen, H., 3679
Chen, K., 171, 3547
Chen, P., 509
Chen, P-J., 3767
Chen, S-H., 3767
Cheng, C.-H. C., 1228
Cheng, F., 3547
Cheng, K. H., 3777
Cheng, W., 220, 942
Cheong, R., 1131
Chernyshev, A., 238
Cheung, H. C., 1057
Chimirri, A., 1450
Chin, K-H., 432
Ching, E., 2728
Chirico, G., 588
Cho, S.-J., 1337
Choi, Y., 2169
Choosakoonkriang, S., 1114
Chou, K-C., 3257
Chou, S-H., 432
Choudhary, G., 287
Christophorov, L. N., 1146
Chun, P. W., 1352
Chung, S-H., 2159, 3594
Chupin, V., 2373, 3759
Cibulsky, S. M., 1709
Cieplak, M., 475
Clamme, J. P., 1960
Clapham, D. E., 1317
Claus, R. O., 2502
Cloutier, I., 3123
Coalson, R. D., 3446
Cogdell, R. J., 2483
Cohen, J. A., 350
Colecraft, H. M., 3007
Collet, C., 251
Colombo, G., 2331
Colombo, M. F., 564
Conti, F., 2999
Cooke, R., 1844, 3190
Cooper, K., 2502
Cornelius, F., 1690
Coronado, R., 220, 942
Corry, B., 3594
Cortassa, S., 2734
Cosman, M., 1223
Cosmelli, D., 2306
Costa-Filho, A. J., 2619, 3364
Coughlin, M. F., 1328
Coutinho A., 3061
Covarrubias, M., 928
Covey, D. F., 1038
Cowsik, S. M., 655
Crepeau, R. H., 3364
Croce, R., 2508, 2517
Crocker, E., 1263
Croney, J. C., 634, 4135
Cross, M., 545
Crothers, D. M., 136
Crowe, J. H., 3045
Csaszar, K., 3564
Csernoch, L., 251
Cui, M., 171
Cui, Y., 1844
Cukierman, S., 238, 816
Cytrynbaum, E., 757
Czarnoleski, A. R., 450
Czeslik, C., 2533

Daidone, I., 1876
Dalconi, M. C., 2021
Dalhaimer, P., 533
Danelon, C., 2990
Dang, H., 571
Danuser, G., 3336, 3992
Darden, T. A., 57
Dau, H., 1370
Daumas, F., 356
Davies, P. F., 2691
Davis, C. T., 634
Deamer, D., 967
Dean, D., 356
DeGuzman, V. S., 967
Deikus, G., 599
de Kruijff, B., 2373, 3147, 3759
DeLisi, C., 124
Dembo, M., 3384
Demidenko, E., 1291
Demir, S. S., 832
Dencher, N. A., 671
Deng, J., 2709
Derganc, J., 623, 1486
Derkach, V. A., 1701
DeRosier, D. J., 571
Desai, S. A., 116
Despa S., 4157
Dessauer, C. W., 1399
Destainville, N., 356
de Tombe, P. P., 897
Devor, M., 2181, 2700
DeVries, A. L., 1228
De Waard, M., 942
Di Nola, A., 1876, 2805
Di Nola, A., 3883
Di Valentin, M., 2805
Diaspro, A., 588
Dick, B., 1192
Dietl, P., 1344
Dietze, B., 1065
Dimroth, P., 1651
Ding, J., 3547
Ding, S., 295
Discher, B. M., 3792
Discher, D. E., 533
Dittmer, J., 1370
Dluhy, R. A., 326
Domratcheva, T., 2474
Dong, F., 2216
Dong, W.-J., 1057
Dong, X.-x., 739
Donoso, P., 2319
Draper, L. R., 2781
Driscoll, P. C., 185
Dudley, Jr., 287S. C., 287
Duong, L. K., 3379
Durand, D., 2570, 3123
Durand, D. M., 2099
Dvorak, J. A., 2609
Dyer, R. B., 1909, 3874

Ebihara, L., 277
Eccleston, J. F., 634
Edelman, L. M., 1131
Edholm, O., 102, 2192
Edidin, M., 400, 4078
Edwardson, J. M., 1827
Ehrenberg, M., 154
Eilers, J., 2599
Eisensamer, B., 1720
Ekani-Nkodo, A., 2593
Elbaum, M., 2005
Elf, J., 154
Ellerby, H. M., 1950
Elson, E. L., 2030
Engelhard, M., 1208, 3864
Ensslin, K., 665
Epand, R. M., 3102
Eppell, S. J., 3982
Erickson, H. P., 1252
Estronca, L. M. B. B., 386
Eutenier, B. B., 1580
Evers, T. H., 3147
Eymeric, P., 2058

Fabry, B., 2071
Fahlke, C., 2306
Falck, E., 3636
Falcke, M., 28, 42
Famili, I., 794
Fantner, G. E., 2593
Faraldo-Gómez, J. D., 3276
Farré R., 2071
Fattal, D. R., 2242
Fedorov, R., 2474
Feigenson, G. W., 2609
Feijó, J. A., 1387
Feinstein, E., 599
Ferreira, G., 3662
Fertig, N., 612
Fidy, J., 2542
Filippov, A., 3079
Filippova, E. M., 1281
Fischer, W. B., 3276
Fisher, M. E., 1642
Fitter, J., 3924
Floudas, C. A., 869
Flucher, B. E., 3816
Fontanilla, R., 1580
Forgacs, G., 1272
Fox, P. M., 2709
Fradin, C., 2005
Franco-Obregón, A., 665
Frank, M. G., 623
Franzen, S., 3874
Franzini-Armstrong, C., 1079
Fraternali, F., 1507
Freed, J. H., 2619, 3364
Frei, J., 1750
Freites, J. A., 2169
Frenken, J. W. M., 2483
Freyhult, E. K., 2264
Frick, M., 1344
Frimurer, T. M., 2273
Fuhrmann, M., 2474
Füreder-Kitzmüller, E., 612
Furuya, T., 1950
Fygenson, D. K., 2593, 3959

Gabel, C., 623
Gafni, A., 3480
Galbraith, T. P., 185
Gao, Y.-G., 1228
Garai, K., 1977
Garcia, A. E., 1548
Garneau, L., 3717
Garofoli, S., 2814
Gau, J., 3838
Gautham, N., 2897
Ge, M., 3364
Geacintov, N. E., 2137
Gebauer, D., 1010
Geeves, M. A., 3155, 3168
Gege, C., 306
Gelbart, W. M., 1616
Gennis, R. B., 2728
George, C. X., 3307
Gerini, M. F., 3883

Gerland, U., 2831
Gibbs, A. C., 3874
Gifford, S. C., 623
Giles, W. R., 832
Gillbro, T., 1161
Gittes, F., 1308
Glockshuber, R., 1985
Gnanakaran, S., 1548
Goddard, N. L., 3212
Goforth, P., 2852
Goldsmith, P., 1950
Goldstein, S. A. N., 3679
Gonzales, N. R., 4062
Gonzalez, C., 2306
Goodenough, D. A., 1660
Goodfellow, J. M., 2149, 2795
Gopich, I. V., 787
Gorokhov, A., 57
Gottschalk, M., 3941
Goushcha, A. O., 1146
Grabe, M., 854
Grabielle-Madelmont, C., 3123
Grabner, M., 3816
Grabowski, G. A., 2043
Grabulosa, M., 2071
Grace, R. C. R., 655
Graether, S. P., 552
Granek, R., 2005
Gray H. B., 3917
Greenfield, N. J., 3181
Greve, J., 3968
Griebenow, K., 3285
Griffith, O. H., 3264
Grigera, J. R., 564
Grigoriev, S. M., 2981
Grinberg, O., 1291
Grishin, E. V., 3022
Gromiha, M. M., 1919
Grubmüller, H., 1527
Grycuk, T., 750
Guerrero, K., 3436
Guitouni, H., 1734
Gulacsi, A., 4127
Gulotta, M., 1909
Gumbiner, B. M., 4033
Guo, X., 1784
Gustafsson, M. G., 2264
Gutman, M., 671
Gutsmann, T., 2593
Guzzi, R., 1025

Hagen, V., 1031
Hahn, P. J., 2099
Hair, P. S., 2709
Håkansson, P., 102
Hála, J., 1161
Hall, S. B., 3792
Halle, B., 3941
Haller, T., 1344
Hallock, K. J., 3052
Hammer, D. A., 2671, 4182
Han, W., 4127
Hansen, P. L., 350
Hansma, H. G., 419
Hansma, P. K., 2593
Hapfelmeier, G., 1720
Hargrove, M. S., 3931
Harnett, M. M., 489
Harnett, W., 489
Harper, S., 533
Harreis, H. M., 3607
Harris, R., 185
Hartmann, E., 2474
Hartmann, L. C., 1299
Harvey, S. C., 1057
Haseneder, R., 1720
Hashimoto, H., 4043
Hatters, D. M., 2562
Hatwalne, Y., 2634
Hauet, N., 3123
Haumann, M., 1370
Häusser, M., 3497
Haussler, D., 967
Hayes, J. M., 1299
Hayot, F., 1606
Hazlett, C. R. T., 2533
Heath, G., 3777
Hebeisen, S., 2306
Heberle, J., 466, 1192
Hegemann, P., 466, 1192, 2474
Hehn, D., 1192
Heidtmann, H., 2306
Heimburg, T., 2427, 3730
Hein, M., 1208
Hellingwerf, K. J., 1180, 3226
Helmke, B. P., 2691
Helms, M. K., 4135
Helmstaedter, M., 3508
Henderson, R. M., 1827
Hendriks, J., 1180
Henke, V. G., 1317
Herant, M., 3384
Hesse, J., 612
Hiaoka, M., 696
Hickel, A., 3111
Hidalgo, C., 2319
Higashino, Y., 2664
Higham, A. B., 2646
Hildebrandt, P., 3864
Hinner, B., 1272
Hippler-Mreyen, S., 3864
Hirano, Y., 696
Hitchcock-DeGregori, S. E., 3181
Hoang, T. X., 475
Hoekstra, F. A., 3759
Hoffmann-Rohrer, U. W., 3353
Hofs, C., 2192
Holopainen, J. M., 578
Holst, M. J., 2234
Holzwarth, A. R., 2508, 2517
Hori, H., 1998
Horn, R., 295
Hoshi, T., 2969
Howlett, G. J., 2562
Hoy, J. A., 3931
Huang, H. W., 379, 1808, 3751, 3767
Huang, J., 3777
Huang, Q., 2542, 3285
Huang, X., 171
Hui, KI., 2957
Hulliger, J., 3501
Hussain, J. F., 2646
Hwa, T.,
Hyvönen, M. T., 3636

Inoue, T., 1950
Ishimori, K., 1998
Ishiwata, S., 1103
Ito, Y., 709
Ivanova, V. P., 2427
Iversen, L. F., 2273
Iwasa, K. H., 739
Iwashita, T., 709

Jackson, M. B., 2783
Jacquemond, V., 251
Jäggi, R. D., 665
Jaffar Ali, B. M., 2634
Jakobsson, E., 2929
Jameson, D. M., 634, 4135
Jas, G. S., 1114
Jayaprakash, C., 1606
Jena, B. P., 1337
Jensen, I. E., 4033
Jeremic, A., 1337
Jiang, H., 171, 3547
Jiang, M., 3022
Jiang, X., 1038
Jianhua, S., 171
Jin, A. J., 2609
Joe, E. K., 4023
John, S. A., 266
Johnson, E. F., 57
Jones, D. H., 2393
Jordan, P. C., 2814
Kaambre, T., 3436
Kafi, S., 2483
Kahn, J. D., 1131
Kalli, K. R., 1299
Kallipolitou, A., 1833
Kapoustina, M. T., 1146
Karatekin, E., 1734
Karplus, M., 1421
Karttunen, M., 3636
Kasielke, N., 3816
Kästner, C. N., 1651
Katiliene, Z., 3240, 4053
Katilius, E., 3240, 4053
Katzer, M., 314
Kawaguchi, K., 1103
Keana, J. F. W., 3264
Keizer, J., 1580
Keller, D., 733
Keller, G., 3123
Keller, S. L., 725
Kelly, S. M., 489
Kempner, E. S., 2781
Kentsis, A., 805
Kerschbaum, H. H., 2293
Keszthelyi, L., 3848
Khan, N., 1291
Khan, S., 571
Kharkyanen, V. N., 1146
Khosravani, H., 687
Kiessling, V., 408
Killian, J. A., 379, 2373
Kim, J. E., 2492
Kindt, J. H., 2593
Kindt, J. T., 1616
Kindzelskii, A. L., 69
King, M. R., 2671, 4182
Kinnally, K. W., 2981
Kinnunen, P. K. J., 578
Kiyota, T., 1950
Kleene, S. J., 3425
Klein, D. C. G., 2483
Klein, H., 3717
Klepeis, J. L., 869
Knecht, V., 1527
Knoch, T. A., 3353
Knox, P. P., 1146
Ko, T.-P., 1228
Koa, J., 3564
Koe, G. S., 1114
Koeppe, II, R. E., 379
Kolinski, A., 1518
Kolomeisky, A. B., 1642
Korn, S. J., 195
Korngreen, A., 3508
Korolkova, Y. V., 3022
Kottke, T., 1192
Kozak, J. A., 922, 2293
Kozlovsky, W., 1031
Kraan, Y., 3968
Kraatz, H-B., 3218

Krambis, M., 910
Krishnan, V. V., 1223
Krofchick D., 3690
Krueger, B. P., 450
Krüger, P., 1493
Kubota, T., 3299
Kugler, G., 3816
Kulić, I. M. 3197
Kummer, U., 69
Kundu, S., 3931
Kurnikova, M. G., 3446
Kutay, U., 665
Kuyucak, S., 2159, 2256, 2871, 3594
Kuznetsov, A., 3436

Laberge, M., 2542
Lagerholm, B. C., 2715
Lai, L., 1867
Lai, Y., 571
Lairez, D., 3904
Lakatos, M., 1202, 3252
Lakämper, S., 1833
Lam, Y-H., 2382
Langowski, J., 3353
Lanni, F., 2715
Lanyi, J. K., 1202, 3252
Larsen, R. W., 2728, 4135
Latorre, R., 2306
Lauffenburger, D. A., 3499
Laver, D. R., 1674
Law, R., 533
Law, R. J., 14
Lawrence, J. C., 1827
Lawrence, L. J., 2562
Laws, W. R., 501, 599
Lazaridis, T., 1926
Leckband, D., 2223, 4033
Leclerc, F., 1421
Lee, C. C., 1756
Lee, D-K., 3052
Lee, J. S., 3218
Lee, K. W., 1450
Lee, M-T., 3751
Lee, S., 1950
Leforestier, A., 2570
Lehmann-Horn, F., 1065
Leidy, C., 3045
Lemaitre, V., 3276
Lemba, M., 3436
Lenferink, A., 3968
Lentz, B. R., 1238
Leontis, N. B., 3564
Leroy, J.-L., 3838
Lesieur, P., 3123
Lester, H. A., 2357
Lesyng, B., 750
Levitan, E. S., 4127
Lewis, L. D., 1291
Li, C-Z., 3218
Li, F., 1252
Lian, J., 2099
Likos, C. N., 3607
Lin, A. J., 3307
Lin, C. P., 4023
Lindahl, E., 102, 2192
Lindblom, G., 1796, 3079
Lindemann, C. B., 4115
Linderman, J. J., 3
Lindqvist, P., 3636
Ling, K., 171
Liu, B., 2957
Liu, H., 3583
Liu, J., 3022
Liu, W., 1263
Liu, X., 277
Liu, X. Y., 523
Livolant, F., 2570
Loew, L. M., 2768, 4144
Logvinova, V., 1950
Lohner, K., 3111
Long, Y-T., 3218
Longo, M., 3045
Lopez, A., 356
Lougheed, T., 612
Louzoun, Y., 124
Löwen, H., 3607
Lu, H., 1895
Lu, L., 1895
Lu, X., 4127
Luchinat, C., 545
Ludescher, R. D., 501
Lullien-Pellerin, V., 2416
Lummis, S. C. R., 2338
Lundbæk, J. A., 2080
Luo, X., 171, 3547
Ly, E., 3379

Ma, B., 1884
Ma, Y.-Z., 1161
MacKay, J. A., 1784
Mackey, M. C., 2841, 3414
MacLeish, P. R., 2756
MacMillan, H. R., 2234
MacRaild, C. A., 2562
Maddox, P. S., 3529
Madhusoodanan, M., 1926
Madrid, R., 4167
Mahaut-Smith, M. P., 2646
Mahmmoud, Y. A., 1690
Maier, C. W., 1272
Maiti, S., 1977
Majumder, R., 1238
Makarov, I. M., 2427
Malliavin, T. E., 3838
Mamaev, S., 960
Mamonov, A. B., 3446
Mancini, G., 578
Maness, S. J., 3874
Mangenot, S., 2570
Mannock, D. A., 1038
Mantulin, W., 2533
Manzo, A. J., 1146
Mao, B-Q., 2756
Marbán, E., 2734
Marganski, W. A., 3384
Marion, D., 2416
Mariuzza, R. A., 4062
Mark, A. E., 2331
Marrink, S. J., 2331
Marsh, D., 1025
Martin, M. O., 3379
Martinez-Pinna, J., 2646
Martnez-Estvez, M., 977
Mason, M. J., 2646
Mateescu, E. M., 419
Mathies, R. A., 2492
Matsuura, K., 1998
Matuska, M., 1844, 3190
Mauk, A. G., 3917
Mazzag, B. M., 4087
McCammon, J. A., 2234
McElhaney, R. N., 1038
McGough, A., 2585
McIntosh, T. J., 1038
Meissner, G., 1079
Mellein, B. R., 3087
Meller, A., 2366
Mello, B. A., 2943
Mély, Y., 643, 1960
Melzer, W., 1065
Meneghini, C., 2021
Mett, H., 1750
Meyhöfer, E., 1833
Mezei, M., 805
Michel, H., 440
Middaugh, C. R., 1114
Miller, J. H., 2781
Milliron, S., 2638
Millot, C., 356
Mitragotri, S., 3087
Mittman, S., 3007
Miyata, H., 2664
Mobilio, S., 2021
Moffat, K., 2112
Mogilner, A., 757, 1591
Molle, G., 2416
Møller, N. P. H., 2273
Mombelli, E., 1507
Monteleone, D. C., 1281
Moore, L. R., 2638
Moraitakis, G., 2149
Moran, O., 2999
Moreno, M. J., 386
Morishima, I., 1998
Morris, R., 1507
Morse, D. E., 2593
Mortenson, L., 220, 942
Moss, R. L., 3807
Moy, V. T., 1252
Mühlhäusser, P., 665
Muhlrad, A., 1047
Müller, G., 3353
Müller, M. G., 2508, 2517
Müllner, C., 1399
Murakami, M., 709
Muratov, C. B., 883, 3624
Muro, C., 2981
Murphy, A. D., 2929
Murugan, R., 770
Musa, H., 205

Naber, N., 1844, 3190
Nachliel, E., 671
Nakamura, K., 1969
Nakayama, S., 709
Narayanan, J., 523
Nataraj, P., 942
Navajas, D., 2071
Neelamegham, S., 4183
Negishi, M., 57
Neher, E., 1563
Nerinovski, K., 545
Neu, J., 854
Newman, S. A., 1272
Ng, Y-K., 4127
Nielsen, C., 2080
Nili, M., 1047
Nilsson, T., 4043
Nitzan, A., 3446
Nollert, P., 854
Norton, R. S., 2382
Notter, R. H., 326
Novoderezhkin, V., 450
Nuccitelli, R., 1580
Núñez, M. E., 3379
Nussinov, R., 1884
Nuzzo, S., 2021
Nyholm, T., 987
Nyholm, T. K. M., 3138
Nylund, M., 987, 3138

Obermair, G. J., 3816
Odde, D. J., 3529
Oesterhelt, D., 671
Oiwa, K., 634
Olejnik, J., 960
Oliveira, A. C., 3894
Olsen, L. F., 69
Olsen, O. H., 2273
O'Neill, E. R., 1674
Onuma, K., 3299

Oosterkamp, T. H., 2483
Opella, S. J., 2393
Oppenheim, A. B., 2467
Oprisan, S. A., 2919
Orädd, G., 3079
O'Rourke, B., 2734
Osman, R., 805
Ospeck, M., 739
Oster, G., 854, 1591
Ostera, G. R., 2638
Otey, C., 2715
Otto, C., 3968
Overman, S. A., 1969

Pal, J. D., 277
Palm, T., 3181
Palmer, L. G., 910
Palsson, B. O., 794
Pande, V. S., 775
Pandit, S. A., 3743
Pandit, S. V., 832
Papin, J. A., 794
Parent, L., 3717
Parigi, G., 545
Parman, J. M., 3212
Parsegian, V. A., 350
Pasenkiewicz-Gierula, M., 1818
Pate, E., 3190
Patel, D. J., 2137
Patel, J. R., 3807
Paternostre, M., 3123
Patra, M., 3636
Paukku, T., 578
Paulsson, J., 154
Pauthe, E., 3904
Peabody, D. S., 3894
Pearson, C. G., 3529
Pedersen, L. C., 57
Pedersen, L. G., 57
Pei, G., 171
Pelta, J., 3904
Perera, L., 57
Perez, C. F., 2655
Perez-Gil, J., 1940
Perez Velazquez, J. L., 687
Periasamy, N., 1977
Persikov, A. V., 501
Pessah, I. N., 2655
Peterman, E. J. G., 1308
Peters, G. H., 2273
Petersen, N. O., 1756, 4011
Petty, H. R., 69
Peyser, Y. M., 1047
Picollo, A., 2999
Pieja, M. J., 869
Pierres, A., 2058
Pietkiewicz, D., 2981
Piémont, E., 643
Pintar, A., 2553
Pison, U., 1940
Piston, D. W., 4078
Pitici, F., 82
Pitsillides, C. M., 4023
Platzer, D., 1399
Podgornik, R., 350
Pohl, P., 1031
Pokarowski, P., 1518
Poms, R., 816
Pongor, S., 2553
Ponti, A., 3336
Poser, B., 2306
Pospíšil, P., 1370
Potier, N., 643
Pottosin, I. I., 977
Premer, S. A., 3931
Premvardhan, L. L., 3226
Přibyl, M., 883, 3624
Price, K. L., 2338
Price, N. D., 794
Prieto, M., 3061
Proks, P., 2345
Pšenčík, J., 1161
Prummer, M., 1651
Puech, P-H., 1734
Pujo-Menjouet, L., 3414
Pun, R. Y. K., 3425
Purisima, E. O., 2883

Qi, X., 2043
Qian, H., 1410
Qin, F., 2957
Quake, S. R., 1281

Racofsky, E. L., 599
Rajagopal, S., 2112
Ramakrishnan, M., 3037
Ramamoorthy, A., 3052
Ramarathnam, R., 2929
Rammes, G., 1720
Rammohan, J., 3982
Ramshaw, J. A. M., 501
Rappolt, M., 306, 3111
Réblová, K., 3564
Reddy, S. Y., 1421
Redick, S. D., 1252
Reed, J. L., 794
Rees, D. C., 2357
Reeves, D. C., 2338
Reinot, T., 1299
Reisler, E., 1047
Ren, Z., 2112
Renn, A., 1651
Reyes, N., 3662
Rhee, Y. M., 775
Rhoades, E., 3480
Ribalet, B., 266
Rice, J. J., 897
Rice, S., 1844, 3190
Ricker, J. V., 3045
Rijken, P. J., 3147
Ríos, E., 3662
Ritsch-Marte, M., 1344
Rivas, L., 3864
Robinson, H., 1228
Roccatano, D., 1876, 3883
Rocheleau, J. V., 4011, 4078
Rodriguez-Casado, A., 1969
Rodríguez-Contreras, A., 3457
Róg, T., 1818
Rogatsky, E., 1909
Roopnarine, O., 2440
Rosen, A. B., 2691
Ross, J. B. A., 501, 599
Ross, J. L., 3959
Rothlisberger, U., 2207
Rothschild, K. J., 960
Rousset, M., 2416
Rukavishnikov, A. V., 3264
Rupprecht, R., 1720
Rusinova, E., 599
Russ, C., 3730
Ryhänen, S. J., 578

Sa-Ardyen, P., 3829
Sackin, H., 910
Sackmann, E., 1272
Saffarian, S., 2030
Safinya, C. R., 3307
Säily, M. J., 578
Sakmann, B., 3508
Sakowska, M. M., 1674
Saks, V., 3436
Salamon, Z., 1796
Salmon, E. D., 3529
Salmon, W. C., 3336
Salomé, L., 356
Salvay, A. G., 564
Salverda, J. M., 440, 450
Samuel, C. E., 3307
Sanchez, G., 2319
Sandre, O., 1734
Sanhueza, M., 4167
Sansom, M. S. P., 14, 1464, 2345
Saparov, S. M., 1031
Saridakis, E., 1218
Saslowsky, D. E., 1827
Sather, W. A., 1709
Satin, L., 2852
Sauvé, R., 3717
Saxton, M. J., 4127
Sayed, M. F. R., 2338
Scaria, P., 1750
Schaefer, A. T., 3508
Schäffer, T. E., 2427
Schätzler, B., 671
Schechter, A. N., 2638
Schief, W. R., 3792
Schiessel, H., 3197
Schlichting, I., 2474
Schlitter, J., 1493
Schliwa, M., 1833
Schmidt, C. F., 1308
Schmidt, H., 2599
Schmidt, M., 2112
Schmidt, R. R., 306
Schneggenburger, R., 1563
Schneider, M. F., 306
Schoenbach, K. H., 2709
Scholes, G. D., 450
Scholey, J. M., 757
Schreibmayer, W., 1399
Schuck, P., 4062
Schuhmeier, R. P., 1065
Schulten, K., 2223
Schütz, G., 612
Schwaller, B., 2599
Schwarz, G., 2990
Schweiger, A., 1985
Schweitzer-Stenner, R., 2542, 3285
Scott, G. W., 1146
Sebban, P., 2090
Seeman, N. C., 3829
Selvaraj, S., 1919
Selvin, P. R., 1
Sengupta, P., 1977
Separovic, F., 2382
Serowy, S., 1031
Sesti, F., 3679
Settanni, G., 2282
Sha, F., 432
Shahidullah, M., 928
Shang, L., 287
Shapovalov, G., 2357
Shealy, R. T., 2929
Sheldahl, C., 1057
Shen, J., 1291, 3547
Shen, L., 171, 3547
Sheridan, D. C., 220, 942
Sherman, A., 2852
Shi, Y., 3583
Shimoyama, Y., 2619
Shivashankar, G. V., 2634
Shoemaker, S. D., 998
Shreiber, D. I., 4102
Shroll, R. M., 1765
Shuai, J., 2099
Shvartsman, S. Y., 883, 3624
Sibley, A. B., 1223
Sick, B., 1651

Sidorov, V. Y., 3470
Siebert, F., 1208
Sigg D., 3703
Sikk, P., 3436
Silva, J. L., 3894
Silverman, M., 3690
Silvius, J. R., 367
Siminovitch, D. J., 1263
Simon-Lukasik, K. V., 501
Sindelar, C., 1844
Singer, W., 1344
Sinn, H., 3767
Sitko, J. C., 419
Skepper, J. N., 2646
Skolnick, J., 1518, 1895
Skoulakis, S., 2795
Slack, N. L., 3307
Slotte, J. P., 987, 3138
Slupsky, C. M., 552
Small, G. J., 1299
Smeekens, S. C. M., 3759
Smith, D. A., 3155, 3168
Smith, J. C., 2090
Smith, J. G., 1114
Smith, S. O., 1263
Snoussi, K., 3838
Soares, C. M., 1628
Söderholm, A., 987
Solé, V. A., 1370
Somerharju, P., 3777
Soni, G. V., 2634
Spain, E. M., 3379
Špaková, N., 3564
Speicher, D. W., 533
Spezia, R., 2805
Šponer, J., 3564
Sportelli, L., 1025
Sprague, B. L., 3529
Sramala, I., 3276
Stamenovi, D., 1328
Stamouli, A., 2483
Stanek, J., 1750
Stavans, J., 2467
Štefl, R., 3564
Stellwagen, E., 1855
Stellwagen, N. C., 1855
Stillwell, W., 314
Stoeckenius, W., 3848
Stolovitzky, G., 897
Straatsma, T. P., 1765
Stromer, M. H., 1337
Strzalka, J., 2393
Stürbing, C., 1317
Subramaniam, S., 2929
Sugihara, G., 1950
Sulea, T., 2883
Sulpizi, M., 2207
Sultan, N., 3037
Sun, J., 3317
Sundaram, J., 3087
Surolia, I., 3037
Sutherland, B. M., 1281
Sutherland, J. C., 1281
Svergun, D. I., 489
Svetina, S., 1486
Svitel, J., 4062
Swamy, M. J., 3037
Swartz, H., 1291
Swegat, W., 1493
Swigon, D., 733
Sykes, B. D., 552
Szakács, J., 3252
Szoka, Jr., F. C., 1784

Tablin, F., 3045
Tai, K., 2234
Tajmir-Riahi, H. A., 2460
Takahashi, F., 2664
Takahashi, S., 1998
Takahashi, S. X., 3007
Takahashi, T., 2256
Taly, A., 2090
Tamaresis, J. S., 4087
Tamm, L. K., 408
Tanaka, M., 306, 1998
Tanaka, S., 3299
Tang, Q., 400
Tang, V. W., 1660
Tang, X. D., 2969
Tatulian, S. A., 1773
Tauber, M. J., 2492
Taylor, D. L., 2715
Taylor, W., 1507
Teixeira, V. H., 1628
Teschke, C. M., 2585
Thirumalai, V., 2919
Thomas, C. J., 3037
Thomas, D., 2646
Thomas, F., 665
Thomas, Jr., G. J., 1969
Thompson, J. B., 2593
Thuman-Commike, P. A., 2585
Tieleman, D. P., 14, 1464
Tijskens, P., 1079
Tittor, J., 671
Tobias, D. J., 2169
Todd, B. A., 3982
Tokumasu, F., 2609
Tollin, G., 1796
Tóth-Boconádi, R., 3848
Touchard, D., 2058
Tranquillo, R. T., 4102
Trapani, J. G., 195
Tredt, C., 1720
Trent III, J. T., 3931
Trepat, X., 2071
Trommershäuser, J., 1563
Trubetskoy, V. S., 1124
Trunk, J. G., 1281
Tseng, G-N., 3022
Tsuboi, M., 1969
Tsvetkova, N. M., 3045
Tu, Y., 897, 2943
Turano, P., 3917
Tycko, R., 3326
Tzlil, S., 1616

Uemura, S., 1103
Ullmann, G. M., 2090
Ursu, D., 1065
Usher-Smith, J. A., 2646
Usson, Y., 3436
Uzunbajakava, N., 3968

Vale, R. D., 3190
Vale, R., 1844
Valente, A. P., 3894
Vallejo, P., 220
Vallotton, P., 3336
van Amerongen, H., 450
van der Horst, M. A., 3226
van der Wel, P. C. A., 379
Van Doorslaer, S., 1985
van Dorsselaer, A., 643
van Grondelle, R., 440, 450, 3226
van Kuik, J. A., 3147
van Mourik, F., 440
van Stokkum, I. H. M., 440, 1180
Van-Quynh, A., 558
Vanderlick, T. K., 998
Vaniv-Checover, S., 671
Vanni, S., 2715
Váró, G., 1202, 3252
Vasilyev, A., 910
Vattulainen, I., 3636
Vaz, W. L. C., 386
Veatch, S. L., 725
Veenstra, R. D., 205
Vendelin, M., 3436
Vengadesan, K., 2897
Vengris, M., 450
Venturoni, M., 2593
Venu, K., 3941
Vercoutere, W., 967
Vereyken, I. J., 3759
Vereyken, I., J., 3147
Viadiu, H., 3317
Victor, J. D., 2756
Vincent, S., 3276
Virtanen, J. A., 3777
Vogel, V., 3792
Vologodskii, A. V., 3829
Volokhina, E., 3968
von Grünberg, H. H., 3730
Voss, A., 2655
Vrensen, G., 3968

Wachsmuth, M., 3353
Wagner, M. A., 116
Waldeck, W., 3353
Wallace, B. A., 185
Walsh, R. J., 1299
Wang, A. H.-J., 1228
Wang, J., 1238
Wang, T-Y., 367
Wang, Z., 326
Waterman-Storer, C. M., 3336
Watts, A., 2382, 3276
Wedd, A. G., 545
Wegener, A. A., 1208
Wei, X., 1317, 4023
Weidermann, T., 3353
Weinstein, H., 3317
Weiss, J. N., 266
Weiss, M., 4043
Weiss, T. M., 379, 3767
Wells, A., 3499
Wendling, M., 440
Wenk, R. H., 2021
Werge, T., 2080
Westh, P., 341
Westlund, P-O., 102
Wikswo, J. P., 3470
Wild, U. P., 1651
Willson, S., 558
Winkler, J. R. 3917
Winslow, R. L., 2734
Winterhalter, M., 2990
Winters-Hilt, S., 967
Wiseman, P. W., 4011
Woehlke, G., 1833
Wojciechowski, M., 750
Wolff, J. A., 1124
Wolkers, W. F., 3045
Wollmer, A., 1493
Wong, E., 4033
Woodbury, N. W., 3240, 4053
Woodle, M., 1750
Woods, M. C., 3470
Woolf, P. J., 3
Woolley, G. A., 612, 1464
Wu, M., 2137
Wüstneck, N., 1940
Wüstneck, R., 1940

Xiao, Z., 545
Xing, J., 1057

Xu, C., 2768, 4144
Xu, W.
Xu, Y., 3547

Yagi, N., 1093
Yakubovich, D., 1399
Yamaki, K., 709
Yamoah, E. N., 3457
Yan, S., 2137
Yang, J., 1750
Yang, L., 509, 1808
Yasumoto, T., 287
Yildirim, N., 2841
Yoshida, T., 623
Yosioka, S., 1998
Yotsu-Yamashita, M., 287
You, H. X., 2043
Young, H. S., 571
Yu, C.-H., 816
Yu, L., 2043

Zaccai, G., 1419
Zaikova, T. O., 3264
Zantl, R., 306
Zanuy, D., 1884
Zborowski, M., 2638
Žekš, B., 1486
Zemel, A., 2242
Zeng, T., 2502
Zhang Y., 4183
Zhang, L., 2502
Zhang, M., 2852, 3022
Zhang, Y., 136
Zhang, Z., 3583
Zheng, S., 2393
Zhou, G-P., 3257
Zhou, H-X., 2216
Zhu, B., 4033
Zhu, J., 124
Zieglgänsberger, W., 1720
Zippelius, A., 1563
Zonia, L., 1387

VOLUME SUBJECT INDEX

A

1B5 cells, 2655
Abscisic acid, 314
Absorbance, 643
Absorption, 1960
Absorption kinetics, 1202, 3252
Acceptor quenching, 1131
Acidic phospholipid, 2043
Acquired immunodeficiency syndrome (AIDS), 1450
Actin, 3155, 3181, 3389
Actin filaments, 1328
Actin polymerization, 1591, 2664
Action potential, 832, 4167
Active motion, 2634
Actomyosin, 3168
Actomyosin ATPase kinetics, 1047
Actomyosin in vitro motility, 1047
Adaptation, 2943
Adenine nucleotides, 266
Adherens junction, 4033
Adhesion, 2058, 3730, 4033
Adhesive dynamics, 2671, 4182
Adiabatic theory, 1146
Adsorption, 4062
Affinity distribution, 4062
AFM, 419, 533, 3982
Age-maturity structured population, 3414
Aggrecan, 3982
Aggrecanase, 3982
Alamethicin, 185
Aligned lipid bilayers, 3052
All-or-none transition, 1518
Allosteric, 3264
α_{1C}, 3007
α-amylase, 3924
α-APA, 3547
Alpha-actinin, 2715
Alpha-cholesterol, 1818
Alpha-helix, 379, 552
Alpha-hemolysin, 967, 2366
Alternative splicing, 3007
Alzheimer s disease, 3326
Amide bands, 1208
AMPA receptor, 1701
AMP-PNP, 1103
Amyloid conformation, 1884
Amyloids, 2149, 3326
Analytical ultracentrifugation, 489, 1419
Anion channels, 116
Anisotropic network model, 3583, 4183
Anisotropy, 501, 634, 4078
Anomalous diffusion, 842, 2005, 3353, 4043
Anomalous mole-fraction, 1660
Antenna, 440, 450
Antenna complexes, 2508
Antiamoebin, 185
Antifungal, 2416
Apolipoprotein C-II, 2562
Apomyoglobin, 1909
Apoptosis, 3968
Area difference elasticity, 1486
Area per lipid, 2192
Arp2/3 Complex, 2907
Assembly, 1969
Atherosclerosis, 4087
Atomic force microscope or scanning probe microscopy, 419
Atomic force microscopy, 665, 1124, 1252, 1337, 1827, 2043, 2071, 2427, 2483, 2593, 2609
ATP, 3717
ATR/FT-IR, 466
Attenuated total reflection Fourier-transform infrared, 466
Autocorrelation, 2634
Autoinhibition, 82
Automated image analysis, 2715
Axisymmetric drop shape analysis-profile (ADSA-P), 509
Axoneme, 4115
Azimuthal frustration, 3607

B

Bacteria, 3379
Bacterial chemotaxis, 2943
Bacterial motility, 1591
Bacteriochlorophyll aggregates, 1161
Bacteriophage, 1616
Bacteriophage P22, 2585
Bacteriophage T4 lysozyme, 3583, 4183
Bacteriorhodopsin, 671, 854, 2502
Band 3, 842
Bandpass, 2756
Barrel-stave model, 3751
Barrel-stave pores, 2242
Base pair, 4053
Bead model, 2562
Bead modeling, 489, 1419,
Bending, 1616
Bending modulus, 2192
Bending rigidity, 2005
Benzo[*a*]pyrene diol epoxide DNA adduct structure and stability, 2137
Beta vulgaris, 977
β1 KO myotubes, 220
β1/RyR1 double KO myotubes, 942
β-cholesterol, 1818
β-sheet, 1884
β-sheet, 3874
β-subunit, 3007
Biacore, 2264, 4062
Bifurcation, 2181
Bilayer, 1674, 725
Bilayer membranes, 3138, 987
Binding, 770
Binding constant, 432, 2460
Binding isotherm, 432
Binding site, 171, 287, 2460
Bioactive peptide, 655
Bioanalytical spectroscopy, 1299
Bioapatite, 2021
Biochemical networks, 794
Biocompatibility, 623
Bioenergetics, 2734
Bioinformatics, 2929, 3257
Biosensor, 4062
Bipolar cell, 2756
Bistability, 2841
BLM, 1750, 1750
Block, 2293, 277
Blood coagulation, 1238
Bond fluctuation method, 3212
Bond fluctuation model, 1902
Bone, 2021, 2021
Botts-Morales model, 3264
Bound water, 558
Boundary lipid, 3364
Bp, 4053
Branched DNA molecules, 3829
Brewster angle microscopy, 3792
Brownian dynamics, 171
Brownian motion, 1308, 3703
BSP-A1, 3037
Bulk polymer solutions, 350
Bundling transition, 3607
Bursting neutron, 2919

C

^{13}C CP/MAS NMR, 3102
CA1, 2099
Ca^{2+}, 2852
Ca^{2+} channel, 942
Ca^{2+} dynamics, 28, 42
Ca^{2+} transients, 220
Ca^{2+}-binding proteins, 2599
Ca^{2+}-dependent inactivation, 696
Cable theory, 3497, 3508
Cadherin, 4033
Caged ATP, 2450
Caged proton, 1031
Calcium, 1093, 1370, 1660, 2969, 3168, 897
Calcium channel, 251, 709, 2319, 3007, 3662, 3816
Calcium release, 1065, 1470, 2655
Calcium transient, 832
Calcium-induced calcium release, 3816
Calcium-induced transition, 82
Calorimetry, 2427, 306
Calyx of Held, 1563
Camel antibody, 2264
CaM-KII, 1701
Cancer detection, 1299
Capacitance, 1796
Capillary electrophoresis, 1855
Capping Protein, 2907
Capsid, 1616
Capsid morphogenesis, 2585
Carbohydrate glasses, 3045
Carbonmonoxyhemoglobin, 2638
CarboxyFluorescein diacetate Succinimidyl Ester (CFSE), 3414
Cardiac, 3470
Cardiac and neuronal channels, 928
Cardiac muscle, 2319

Cardiac troponin I, 1057
Cardiomyocyte, 3436
Ca-sensitivity, 2440
Caspases, 2207
Cation channel, 922, 977
Cationic lipids, 1114, 1750, 1750
Cationic liposome-DNA complexes, 3307
Cations Ni(II) or nickel, 419
Cation-π interaction, 1969
Cavitation, 3087, 4023
CD, 1114, 1909
CD2, 2223
CD58, 2223
CDNA expression, 220, 942
Cell adhesion, 1252, 2671, 4033
Cell adhesion molecules, 2223
Cell communication, 3624
Cell division tracking, 3414
Cell mechanics, 2071, 2691, 2715
Cell migration, 3499, 4102
Cell motility, 1591, 2907, 3389
Cell proliferation, 3414
Cell signaling, 28, 42
Cell traction, 3499, 4102
Cell viscoelasticity, 2071
Cell-penetrating peptides, 1796
Cellular mechanics, 1328
Cellular modeling, 4087
Cellular shape change, 2664
Cellular transport, 1642
Central pattern generator, 2919
Chain packing, 2242
Channel, 14
Channel current analysis, 967
Channel electrostatics, 2793, 2814
Channel gating, 1470
Channel selectivity, 2416
Channels, 1796, 2768
Charge movement, 3662
Charge optimization, 2883
Charge transfer, 3226
Chemical kinetic mechanism, 2112
Chemical shift, 1223
Chemical signaling, 2634
Chemiosmotic energy coupling, 571
Chimera, 1709
Chirality, 475
Chloride channels, 116, 2306
Chlorophylls, 2508
Cholestane spin label, 2D-ELDOR, 2619
Cholesterol, 725, 1025, 1038, 1734, 1827, 2080, 2192, 2609, 3102, 3138 3792
Cholesterol crystallites, 3102
Cholesterol domain, 3777
Cholesterol efflux, 3037
Cholesterol-lipid interactions, 1038
Cholinergic synapse, 2234
Chromatin, 2570, 3197
Chromophore (de)protonation, 1180
Cilia, 4115
Circular dichroism, 1114, 1940, 1985, 1985, 3181
Cis-trans isomerization, 2492
5CITEP inhibitor, 1450
Citrate transporter, 1651
CitS, 1651
Class-I MHC molecule, 400
Clathrin-coated pits, 4011
ClC family, 2306
Clustered DNA damages, 1281
Clustering of multiple trajectories, 2149
Coiled coil, 3181
Cold shock protein, 2216
Collagen, 2593, 3501
Collagen ECM, 2715
Collective motions, 1876, 1876
Columnar DNA aggregates, 3607
Columnar hexagonal phase, 2570
Commensurate lattice, 3111
Compatible solute, 341
Complementarity, 2883
Complex elastic modulus, 2071
Compound 0, 1998
Compound I, 1998
Computational cell biology, 28, 42, 3336
Computer simulation, 696, 1527, 1606, 1765, 2795
Computer simulations, 3743
Concentration-independent transport, 1010
Condensation, 1960
Configuration interaction (CI), 2805
Configuration sampling, 775
Confocal imaging, 220
Confocal laser scanning microscopy, 3353
Confocal microscope, 2450, 1651, 3307
Conformation, 2460
Conformational change, 3547
Conformational coupling, 1527, 2090
Conformational dynamics, 4135
Conformational entropy, 3924
Conformational fluctuations, 3883
Conformational variability, 1548
Connective tissues, 3501
Connexin43, 205
Connexon, 277
Constrained analysis, 599
Constrained dynamics, 1493
Contact order, 475
Continuous fluorescence microphotolysis, 3353
Continuous illumination, 3848, 3857
Continuum electrostatics, 2090, 2871
Continuum models, 3594
Cooperativity, 897, 1902, 2440, 3155, 3168,
Copper(II) coordination, 1985
Correlation spectroscopy, 4011
Cortical tension, 3389
Counter-ions, 1628
Coupled oscillators, 2919
Covalent modification, 1773
CP29, 2508
Critical fluctuations, 154
Critical micelle concentration, 3480
Critical tension, 998
Cross-bridge, 3807
Crosspeaks, 2619
Crystal growth, 1218
Crystallization, 523, 3299
Crystallogenesis, 1218
C-type inactivation, 3022
Cubic phase, 2373
Cutoff, 3636
CXCR4, 171
Cyanine dyes, 634
Cyclic-nucleotide-gated channel, 3425
CYP2A4, 57
Cys-loop receptor, 2338
Cysteine mutagenesis, 295
Cysteine proteases, 2207
Cystine-rich protein, 2416
Cytochrome bo_3, 2728
Cytochrome *c*, 4135
Cytochrome P450, 57
Cytoskeleton, 842, 2058, 2715, 3336, 3389, 3529, 4087

D

Dansyl, 987
Deconvolution, 3529
Deformability, 1328, 2058
Dehydration, 3045
Delay embedding, 2919
Denaturants, 770
Dendrites, 2599, 3497, 3508
Dense core vesicle, 4127
Deoxyhemoglobin, 2638
Depletion, 3299
Desensitization, 3
Deterministic global optimization, 869
Deuterium NMR, 1263
DHPR, 942
Diacylglycerol, 4144
Diamond minimal surface, 854
Diastole, 3807
Dielectric constant, 2871
Dielectric properties, 1796
Diethyl pyrocarbonate, 2969
Differential scanning calorimetry, 314, 528, 1038, 3102
Diffusion, 787, 2599, 3703
Diffusion coefficient, 2005
Diffusion equation, 2234
Diffusion measurement, 1977
Dihydropyridine receptor, 1065, 1079
Dihydropyridines, 709
Dihydrosphingomyelein, 3102
Diphenylhexatriene, 987
Diphytanoyl phosphatidylcholine, 1808
Dipole moment, 3226
Dipole potential, 4144
Di-saturated phosphatidylcholine, 314
Discrete, 3624
Disease, 2440
Dissociation kinetics, 3959
Distance-type reaction coordinates, 1493
Distributed computing, 775, 869
Disulfide, 2357, 2781
Divalent cation, 277
DLVO potential, 523
DMPC, 3079, 3759
DNA, 2460, 3197, 3838
DNA binding, 1867

DNA condensation, 1124, 578
DNA curvature, 136
DNA cyclization, 136
DNA damage and repair, 1281
DNA elasticity, 2467
DNA flexibility, 136, 3829
DNA forms, 1421
DNA hairpin, 432
DNA ligation, 3829
DNA looping, 1131
DNA packaging, 1616
DNA-protein interactions, 2366
Docking, 1895, 3883
Domain motions, 3583, 4183
Domain size, 2553
DOPC, 1734, 2005, 3079
Dorsal root ganglion, 2181, 2700
Double strand breaks, 1281
Double stranded DNA, 4053
Double-flash excitation, 3857
DPPC, 2192, 3792
DPPC bilayer, 3743
Drug design, 3
DsDNA, 4053
Dyes, 2768
Dynamic instability, 739
Dynamic light scattering, 3299
Dynamic structure factor, 3767
Dynamic surface tension, 509

E

Egg activation, 1580
Elastic modulus, 1103
Elasticity, 2427
Electrical distance, 205
Electrical resistance, 1796
Electroabsorption, 3226
Electron cryomicroscopy, 571
Electron density, 3111
Electron microscopy, 379, 552, 1124, 1337
Electron paramagnetic resonance, 1985
Electron paramagnetic resonance spectroscopy, 3190
Electron spin echo, 1025
Electron transfer, 1146, 2728, 3240, 4135
Electron transfer in DNA, 3218
Electrophoresis, 2460
Electrophysiology, 287, 687, 2306, 3425, 3470
Electrostatic binding, 2883
Electrostatic interactions, 1507, 2216, 2795, 3317, 3636
Electrostatic properties, 3226
Electrostatics, 750, 1796, 2256, 2282, 2768, 3594, 3743
Enantiomeric cholesterol, 1038
Endoplasmic reticulum, 1470
Endothelium, 4087
Energy landscape, 3703
Energy transfer, 440, 2483, 2508, 2517, 3240
Enthalpy, 1844
Entrainment, 2919
Enzyme inhibition, 1765
Enzyme kinetics, 3264
Enzymes in nonaqueous solvents, 1628
Epileptic activity, 2099
Epithelial cells, 1660
Epithelial layers, 3624
EPR, 1025, 1985, 1998
EPR oximetry, 1291
EPR spectroscopy, 1844
Equilibrated solution model, 57
Equilibrium constant, 205
Equilibrium ligand binding, 3931
Equilibrium surface tension, 509
Erythrocyte, 116
Erythrocyte shape, 1486
ESEEM, 1025
ESP charges, 750
Essential dynamics, 1876, 2207, 2805, 3883
Euler elastics, 3197
Evanescent wave microscopy, 4127
EXAFS, 1370
Excitation, 3470
Excitation-contraction coupling, 1065
Exciton, 643
Excretory/secretory proteins 489, 1419
Exocytosis, 1344
Explicit solvation model, 805
Extracellular matrix, 1272
Extra-spike, 2700
Eyring rate model, 2293

F

Facilitated diffusion, 3959
Facilitation, 1563
Factor X_a, 1238
Familial hypertrophic, 2440
Fast- and slow-twitch muscles, 2234
Fast potassium channel, 739
FCS, 2030, 4053
FCS data analysis, 1977
FCS phase diagram, 2030
Femtosecond spectroscopy, 1161
Ferritin, 2256
Fertilization, 1580
FEtk, 2234
FG-repeats, 665
Fibril, 2593
Fibril structure, 1950
Fibrils, 3501
Fibroblast, 2715
Fibroblasts, 3499, 4102
Fibronectin, 1252, 3904
Filarial nematode, 489, 1419
Fixed and mobile buffers, 1031
Flash photolysis, 1192
Flavin, 2474
Flavin mononucleotide, 466, 1192
Flavoprotein, 1192
Flow chamber, 4182
Flow cytometry, 2709
Fluctuation analysis, 4011
Fluctuations, 733, 1606
Fluorescence, 1, 367, 588, 634, 987, 1124, 1909, 2768, 4135, 4144
Fluorescence anisotropy, 2533
Fluorescence correlation spectroscopy, 3353, 4043, 4053
Fluorescence excitation, 1299
Fluorescence lifetime, 634
Fluorescence microscopy, 408, 998, 1317, 2709, 3529, 3792
Fluorescence photobleaching recovery, 1756
Fluorescence quenching, 3792
Fluorescence resonance energy transfer, 4053
Fluorescence spectroscopy, 578
Fluorescent calcium indicator, 3816
FMN, 466
Folding, 1909
Folding/unfolding, 3583, 4183
Force, 2440
Force fields, 816, 1421, 2159
Force generation, 1591, 1844
Force measurement, 4033
Force spectroscopy, 1252
Force-extension curve, 2831
FRAP, 408, 1317
Fredholm integral equations, 4062
Free energy, 1493, 1548, 1844
Free energy calculations, 2137
Free energy of transfer, 314
Free energy profiles, 2793, 2814
Free solution mobility of DNA, 1855
Free-energy calculation, 775
Freeze-fracture electron microscopy, 2382
Freeze-quench method, 1998
FRET, 1, 1057, 1131, 4053, 4078
FRET microscopy, 3992
Frog atrium, 1079
Frog myocardium, 1079
Frog ventricle, 1079
FSM, 3336
FTIR, 1114, 3045, 3759, 3777, 3874
FTIR spectroscopy, 2460
Functional binding, 564
Functional domain composition, 3257
Fura-2, 1065
Fusion peptide, 1926
Fusion pore, 1337, 1344

G

G_0 stem cell model, 3414
Gametogenesis, 1192
Ganglioside, 4011, 367
Gap junction channel, 277
Gate, 910
Gating, 2957, 3007
Gating current, 295, 3703, 3662
Gating mechanism, 2331
GCN4, 1867
Gel formation, 2562
Gene array, 124
Gene delivery, 1960, 3730
Gene therapy, 1114
Generalized Born, 3838
Genetic networks, 1606
Geochemical surface adhesion, 1765
Geometric clutch, 4115
Gfp, 4127

GIRK, 1399
Global optimization, 2897
Glyceroglycolipids, 3147
Glycocalix model, 306
Glycosphingolipids, 367
Go model, 475
Golgi complex, 2080
G-protein, 3
G-protein-coupled receptor, 3
Gramicidin, 1
Gramicidin A, 2159, 3646
Gramicidin A′, 3364
Gramicidin S, 3874
Gram-negative, 3379
Green bacteria, 1161
Green fluorescent protein, 2691, 3353, 4078
Grotthuss mechanism, 238, 1031
Growth factors, 883

H

^{2}H NMR, 3759
H,K-ATPase regulation, 1690
H/D exchange, 1180
Haemophilus influenzae, 794
Halobacterium salinarum, 960
Hb oxygenation, 564
Heart, 2319, 3679
Heat expansion, 2585
Heating, 1308
Helicobacter pylori, 794
Helix, 14
Helix bundles, 1464
Helix packing, 1263
Heme protein, 3285, 3917
Hemodynamics, 4087
Hemoglobin, 564, 3931
Hemoglobin magnetic susceptibility, 2638
Heparin, 1960
Heterogeneous ADP diffusion, 3436
Heterologous expression, 2999, 3662
Hexacoordinate hemoglobin, 3931
Hexagonal assembly, 3607
Hidden Markov model, 967
Hierarchical model, 3646
Higher plants, 450
High-frequency phonons, 3767
Hill dynamics, 1606
Hippocampus, 2969
Histidine, 2969
Histone-like nucleoid structuring protein, 2467
HIV-1, 2393, 3276
HIV-1 integrase, 1450
HIV-1 RT, 3547
Homology model 57, 2345, 2929
Homotransfer, 4078
Hopf bifurcation, 739
Horseradish peroxidase C, 2542
Hybrid global optimization, 869
Hydration, 545, 1628, 2137
Hydration dependence of multilayers, 1808
Hydration forces, 523
Hydration of lipid bilayer, 102
Hydrodynamic coupling, 2634
Hydrodynamics, 1387, 3767, 4182
Hydrophobic cluster, 1919
Hydrophobic core, 2553
Hydrophobic gate, 671
Hydrophobic match, 2080
Hydrophobic pores, 2242
Hydrophobicity scale, 2553
Hyperpolarization-activated channel, 2756

I

Ice, 279, 552, 1228
IgG, 2781
$I_{K,ACh}$, 1399
Image analysis, 3336
Image reconstruction, 3982
Imaging, 3379
I-motif, 3838
Impedance spectroscopy, 3218
Importin β, 665
Impulse response, 2756
In vitro translation, 960
In vivo, 4043
Inactivation, 3457, 3662
Inactivation kinetics, 928
Infrared, 960, 1909
Infrared spectroscopy, 1940
Inhibition mechanism, 3547
Inhibitor resistance, 1450
Inhibitory region, 1057
Inner ear, 3457
Inositol 1,4,5 trisphosphate, 1470
In-plane phonons, 3767
In-plane structure of membranes, 1808
Ins(3,4,5,6)P_4, 1387
Integrin, 1252, 2671
Intercalation, 432
Intercellular signaling, 883
Interdigitated lamellar structure, 3123
Interface waters, 2282
Interfacial catalysis, 1773
Interference reflection microscopy, 2058
Intermediate filaments, 2691
Intermediate-sized molecules, 1317
Interparticle interaction, 3299
Interpeak intervals, 687
Interstitial region, 3111
Intrinsic mobility of DNA oligomers, 1855
Intrinsic propensity, 82
Inulin, 3147, 3759
Inward rectifier, 910, 2345, 3717
Inward rectifier K channels, 266
Ion binding, 3743
Ion channel design, 1464
Ion channels, 1, 116, 185, 195, 816, 910, 1674, 2159, 2256, 2345, 2357, 2852, 287, 2871, 3594, 3646, 3703
Ion current, 3646
Ion permeation, 2293
Ionic basis, 832
Ionic conductance, 2990, 4167
Ionic crystal, 419
Ionic permeability, 238
Ionic pore, 2999
Ionic solvation, 2793, 2814
IR spectroscopy, 326
Iron, 2256
Ischemia, 3470
Ising model, 897
Islet amyloid peptide, 1884
Isoosmotic preferential binding parameter, 341
Isothermal titration calorimetry, 1867
Isotope labeling, 960

J

J factor, 136
Jurkat cells, 2709
Jurkat T lymphocyte, 2293

K

K^+ channel, 2929, 3508
K^+ pore, 928
K^+-selective channels, 2929
KCNE1, 3679
Kinesin, 1833, 1844, 3190
Kinetic isotope effect, 1180
Kinetic modeling, 1720
Kinetic proofreading, 1410
Kinetics, 386, 1909, 2264, 2508, 2957, 3874
Kv2.1, 195
KvLQT1, 3679

L

Lac operon, 2841
Lamellar x-ray diffraction, 3751
Lamellipodia, 2907
Lamello-columnar phase, 2570
Langmuir isotherm, 509
Large-scale motions, 2282
Laser inactivation, 4023
Lasers, 1308
Latency relaxation, 1093
Lateral diffusion, 2192
Lathosterol miscibility, 3138
Lattice proteins, 1518
Laurdan, 987
Left-handed DNA, 419
Leghemoglobin, 3931
Leukocyte, 4182
Levan, 3147, 3759
Lever-arm trajectory, 1047
LFA-3, 2223
Lhcb4, 2508, 2517
Ligand, 3624
Ligand and ligate, 509
Ligand docking, 2273, 2338
Ligand receptor interactions, 3959
Ligand release, 883
Ligand-gated channel, 2957
Ligand-gated ion channel, 2338
Ligand-receptor interaction, 1252
Light, 466
Light absorption, 1308
Light harvesting, 440
Light harvesting 2 complex, 2483
Light harvesting complex I, 3240

Light scattering microscopy, 3792
Light-harvesting complex, 2805
Light-induced changes, 1146
Lignin peroxidase, 3883
Limit-cycle, 1387
Line tension, 1734
Lipid, 725
Lipid bilayer, 1038, 2005, 2242, 3061, 3636, 3751, 3777
Lipid bilayer phases, 386
Lipid bound conformation, 655
Lipid domains, 3045, 3079
Lipid dynamics, 3777
Lipid hydrolysis, 1773
Lipid membrane, 1025, 1038, 1486
Lipid microdomain, 1827
Lipid monolayer phases, 326
Lipid monolayers, 2169
Lipid organization, 3123
Lipid phase separation, 367
Lipid polymorphism, 3052
Lipid rafts, 367, 1507, 2080
Lipidic cubic phase, 854
Lipid-peptide interaction, 1950, 3037
Lipopolysaccharide membrane, 1765
Liposomes, 578, 1950, 3061
Liquid crystalline phase, 3111
Liquid ordered phase, 2619
Listeria, 1591, 2907
Local Ca^{2+} concentration, 696
Localization of anesthetic, 3123
Long-range interactions, 1919
Loop E motifs, 3564
LOV, 466
Low energy conformers, 2897
Low temperature, 1228
Low-frequency stimulation, 687
LQTS, 3679
LTP, 1701
L-type Ca^{2+} channel, 220
Lung, 1344
Lysozyme, 523
L-α-dimyristoylphosphatidylcholine, 1818

M

Machine learning, 967
Macromolecular crystallography, 2474
Macromolecules, 1218
Magic angle spinning, 1263
Magnesium, 922, 1660, 2969
Magnetic relaxation, 558
Magnetic relaxation dispersion, 558, 3941
Magnetic susceptibility tensor, 3917
MagNuM, 922, 2293,
Malaria, 116
Maltoporin, 2990
Mammalian skeletal muscle, 251
Manganese complex, 1370
Manning electrophoresis theory, 1855
Markov-chains, 3501
Mast cell granules, 3941
Mathematical model, 757, 2841, 3436
Mathematical morphology, 3982
Maturation transition, 2585
Maximum entropy, 4062
Maximum entropy method, 1977
MD simulations, 2282, 3646
MDCK, 1660
M-DNA, 3218
Mechanical properties, 1527
Mechanical strain, 1344
Mechanosensitive, 2357
Mechanotransduction, 2691, 4087
Megakaryocyte, 2646
Melatonin, 69
Membrane, 1827, 2382, 2768, 3087, 3379
Membrane adhesion, 1486
Membrane bilayer, 2043
Membrane capacitance, 2646
Membrane channels, 787
Membrane charge density, 3307
Membrane diffusion, 1756
Membrane distribution, 4011
Membrane domains, 356, 2609, 3138
Membrane dynamics, 842
Membrane elasticity, 998, 1010
Membrane elasticity, 3751
Membrane fluctuation, 2005, 2664,
Membrane fusion, 1926
Membrane insertion, 185
Membrane insertion of amphiphiles, 386
Membrane invaginations, 2646
Membrane location, 314
Membrane microdomains, 367
Membrane mixing, 1784
Membrane partitioning, 341
Membrane permeabilization, 4023
Membrane potential, 4144
Membrane protein crystallization, 854
Membrane protein types, 3257
Membrane proteins, 1263, 1902, 2345, 2393, 3299
Membrane restructuring, 2043
Membrane skeleton, 400
Membrane staining, 386
Membrane thickness, 238
Membrane trafficking, 1690
Membrane tubule, 1950
Membrane undulations, 238
Membrane-membrane interactions, 3730
Membrane-peptide interactions, 3751
Mesophases, 2570
Mesoscopic kinetics, 154
Metabolism, 794
Metabolite, 154
Metal cation, 2460
Methemoglobin, 2638
Mg^{2+}, 3717
Mg^{2+} inhibition, 2319
MHC class I, 4078
Microdiffraction, 2021
Microfabrication, 623
Microfluidics, 623, 1281
Micro-manipulation, 2593
Micropipette aspiration, 998, 3389
Microtubule lattice, 3959
Microtubules, 757
Minimum surface shielding, 1784
MiRP, 3679
Miscibility, 725
Mitochondria, 2981, 3436
Mitochondrial calcium, 2734
Mitosis, 757
Mixed binding sites, 450
Mixed valence, 2728
MMGBSA, 3838
MMPBSA, 3838
Mobility, 501
Modal gating, 3457
Model, 69, 287, 1470, 1563
Model membrane, 3045
Model-convolution, 3529
Modeling, 440, 709, 739, 750, 1057, 1580, 1628, 2943, 3594, 3624
Molecular assembly, 1950
Molecular binding ratio, 509
Molecular dynamics, 102, 14, 57, 82, 171, 475, 1421, 2137, 2149, 2159, 2192, 2331, 2542, 2805, 3147, 3636, 3743, 3838
Molecular dynamics simulation, 1548, 1628, 1450, 1818, 1884, 2169, 2207, 3276, 3564, 3767
Molecular mobility, 3353
Molecular modeling, 57, 655, 816, 2264
Molecular motor, 571, 757, 1103, 1591, 4115
Molecular motor proteins, 1642
Molecular recognition, 1867
Monoglycerides, 238
Monomolecular lipid layer, 3147
Monoolein, 854, 2373
Monte Carlo, 3, 805, 3703, 4043
Monte Carlo simulation, 136, 1131, 1031, 1518, 1902, 2427, 3529, 3992
Motility, 1844
Mouse β-cells, 2852
MS2 bacteriophage, 3894
MscL, 2331
Multihistogram method, 1518
Multiparameter detection, 1651
Multiple conductance channel, 2981
Multiple open states, 709
Multivariate analysis, 2264
Murine erythroleukemia (MEL) cell, 400
Muscle, 897
Muscle mechanics, 3807
Muscle regulation, 3181
Muscular dystrophy, 251, 2234
Mutagenesis, 287, 3022
Mutant proteins, 545
Mutations, 1548
Myeloperoxidase, 69
Myocardium, 3807
Myoglobin weighing, 564
Myosin, 3155
Myosin molecular dynamics, 1047
Myotubes, 2655

N

Na diffusion, 4157
Na^+/glucose cotransport, 3690
Na^+-channels, 2181
Nanopore, 2366

Nanovideomicroscopy, 356
Nerve growth factor, 2282
Network growth, 2907
Neurons, 2599
Neuropeptide release, 4127
Neurotransmitter binding site, 2345
Neutrophils, 69
Nexin, 4115
NFGAIL, 1884
Nicotinic, 14
NK1 agonist, 655
NK2 receptor ligand, 655
NMR, 185, 1223, 2373, 3894
NMR spectroscopy, 3917
NMR-derived constraints, 1548
NNRTIs, 3547
Nociceptor, 2957
Noise, 154, 2030
Noise analysis, 2306, 2990
Nonideal mixture, 3045
Nonlamellar phase, 3111
Nonlinear dynamics, 687, 1146, 1387, 2919
Nonspecific binding, 3317
Nonspecific complex, 3317
Nonsymmetric, 2357
Nonsynaptic coupling, 2099
Nonviral gene therapy, 3307
Non-Watson-Crick base pairs, 3564
Normal coordinate structural decomposition, 2542
Normal hexagonal phase, 3052
Nuclear pore complex, 665
Nuclear pore gating, 1317
Nucleation, 1218
Nucleation dependent aggregation, 3480
Nucleic acids, 1421
Nucleocapsid protein, 643
Nucleoid, 2467
Nucleoporins, 665
Nucleosome, 3197
Nucleosome dynamics, 3197
Nucleotide, 3968
Nucleotide analogs, 634
Nucleotide excision repair, 2137
Nyquist plots, 3218

O

Occluded surface, 2553
Odorant, 4167
Olfaction, 3425
Olfactory neuron, 4167
Oligomers, 1940
Open-channel block, 1720
Opioid receptor, 3
Optical traps, 1308
Optical tweezers, 1103, 1308, 1344, 2634
Order, 102
Order parameters, 2192
Ordered hydration, 3564
Orientation, 3848
Orientational ordering, 3607
Oriented circular dichroism, 3751
Oriented multilayers, 1808
Orthorhombic 3D crystals, 2570
Oscillation, 69
Osmotic pressure, 350
Osmotic second virial coefficient, 523
Osmotic stress, 350
Other electrophoresis theories, 1855
Oxidative phosphorylation, 2734
Oxidized bases, 1281
Oxygen, 466
Oxygen consumption rates, 1291
Oxygen evolution, 1370
Oxygen gradient, 1291
Oxygen measurement, 1291
Oxyhemoglobin, 2638

P

Pain, 2181, 2700
Palmitic acid, 2169
Pancreatic islets, 2852
Pancreatic trypsin inhibitor, 3941
Paracellular ion permeability, 1660
Parallel computing, 869
Partial unfolded conformations, 1876
Particle noise, 2030
Particle-Mesh Ewald, 3636
Partition coefficient, 314, 386
Partition function, 136
Parvalbumin, 599
Passive diffusion, 1317
Patch clamp, 977, 1709, 2981, 2357, 1720, 3425, 3497
Patch-clamp recording, 3816
Pattern formation, 2634, 3624
PC chain order, 1818
16-PC spin label, 3364
PEG-grafted liposomes, 350
Peptaibol, 1464
Peptide, 14
Peptide aggregates, 1756
Peptide structure prediction, 2897
Peptide-lipid interactions, 326, 2043
Percolation, 1272
Peridinin-chlorophyll-protein (PCP), 2805
Perinuclear Ca^{2+} depletion, 1317
Permeability, 116, 1709
Permeabilized cells, 1470
Permeation, 2306, 3457, 3594
Permeation models, 2871
Persistent sodium current, 2099
Perturbed Hamiltonian matrix, 2805
Pfg-NMR, 3079
pH, 2969
pH dependence, 1985
Phase behavior, 2609, 3607
Phase contrast microscopy, 1272, 2709
Phase diagram, 3123
Phase improvement, 2112
Phase separation, 725
Phase transition, 306, 1272, 2373, 3079, 3138
Phasic neuron, 4167
Phenyl phosphate analogs, 750
Philanthotoxin, 2293
Phosphatidylcholine, 3037
Phosphatidylethanolamine, 3111
Phosphatidylinositol, 3264
Phosphatidylinositol-4,5-bisphosphate, 4144
Phospholipase A_2, 1773
Phospholipids, 1238, 2373, 2609, 3138, 3147, 3968
Phosphoryl group, 750
Phosphorylation, 1410, 1701, 2553
Photobiology, 3864
Photocurrent, 2502, 3848, 3857
Photocycle, 3857
Photocycle intermediate, 1180
Photocycle transition, 1180
Photoelectric signal, 1202, 3252
Photo-induced, 4135
Photon echo, 450
Photosynthesis, 1370, 2090, 2483
Photosystem II, 2508
Phototropin, 1192, 2474
Photovoltaic effect, 2502
PIP_2, 3717
PKA, 1399
pK_a, 2795
Planck-Benzinger methodology, 1352
Plant hemoglobin, 3931
Plasmodium falciparum, 116
Platelet, 2646
PNP, 3646
Poisson-Boltzmann, 750, 2242, 3838
Polarity profile, 1025
Polarizability, 3226
Polarized Raman spectroscopy, 1969
Polyamines, 205, 1124, 2293
Polyampholytes, 3904
Polyene antibiotic, 3061
Polyethylene glycol, 3299
Polymer brush, 350
Polymer extension vs. force, 733
Polymer modeling, 2831
Polymer supports, 408
Polymer translocation, 787
POPC, 3079, 3759
Pore-forming protein, 2382
Pores, 1750, 1796
Porphyrin, 4135
Positive curvature strain, 3052
Positive residues, 266
Potassium modulation, 977
Potential-dependence, 1750
Power spectra, 1387
Power-law rheology, 2071
PP_2A, 1399
Predation, 3379
Preferential hydration, 341
Pressure, 1616
Pre-steady-state kinetics, 3690
Probe, 124
Probe-ligand, 2883
Processivity, 1642, 1833
Prodan, 987
Propidium iodide, 2709
Protein adsorption, 2533
Protein conformational changes, 1208
Protein crystallization, 1218, 2427, 3941
Protein dehydration, 3285
Protein denaturation and refolding, 3904

Protein dynamics, 2533, 3894, 3924
Protein flexibility, 1131, 2273
Protein folding, 475, 869, 1884, 3874
Protein hydration, 564
Protein immobilization, 3864
Protein import, 2981
Protein interactions, 2562, 3181, 4062
Protein kinase phosphorylation, 1690
Protein mobility, 3917
Protein rotation, 558
Protein self-association, 3941
Protein sliding, 3326
Protein solution structure, 3917
Protein sorting, 2080
Protein stability, 2216, 3924
Protein structural perturbations, 3285
Protein structure, 3276
Protein structure determination, 3982
Protein structure prediction, 489, 1419
Protein structure/function, 2474
Protein surface mapping, 2883
Protein tyrosine phosphatase 1B (PTP1B), 2273
Protein unfolding, 1884
Protein-DNA interaction, 3317
Protein-lipid interactions, 3264
Protein-membrane interaction, 2043
Protein-protein interactions, 854, 1895
Protein-protein interactions, 3941
Proteins, 238, 533, 1223
Proteins in interaction, 356
Proteomics, 3257
Proteorhodopsin, 1202
Proton pump, 3848, 3857
Proton pumping, 2728
Proton transfer, 238, 671, 1180
Proton transport, 816, 960
Proton uptake, 2090
Protonation, 750
Protonation states, 2090
Proton-hole, 671
Protons, 195195
Proximity analysis, 805
Pseudomonas aeruginosa, 1765
Pseudopod, 3389
PSII, 2517
Pulmonary surfactant, 326, 2169
Pulsed electric fields, 2709
Purple bacteria, 440, 2483
Purple membrane, 2502, 3848, 3857
Pyroelectricity, 3501

Q

Q region, 3717
Quantum calculations, 816
Quantum chemistry, 2474
Quasi-elastic incoherent neutron scattering (QENS), 3924
Quenching, 501

R

Radiation, 2781
Raft, 725
Raman, 1114
Raman spectroscopy, 3285, 3864, 3968
Rapid-mixing device, 1998
Rate coefficient, 2112
RBC-diagnostics, 623
RBL cell, 2319
RC roll-off, 739
Reaction center, 3240
Reaction coordinate, 1493
Reaction pathway, 1493
Reactive lysine residue, 1047
Receptor, 3624
Receptor activation, 1208
Receptor desensitization, 1720
Receptor kinase, 3
Receptor mobility, 356
Receptor models, 2273
Receptor neuron, 3425
Receptor potential, 739
Recovery from depression, 1563
Red cell, 533
Redox state, 2319
Regularization, 4062
Regulation, 910, 1238, 3155, 3168, 3436
Regulatory, 2440
Regulatory and essential light chains, 2450
Regulatory domain, 2450
Relaxation of charge-separated states, 3240
Relaxation rate, 2112
Relaxometry, 545
Releasable pool, 4127
Released pentons, 2585
Renal, 910
Resolubilization, 1124
Resonance Raman, 2542
Respiration, 3436
Respiratory control, 2734
Retinal isomerization, 1208
Retinal protein, 1202, 3252, 3864
Reversal potential, 2756
Reversible binding, 3959
RGS, 3
Rheology, 1272
Rhodobacter sphaeroides, 1146
RNA, 3968
RNA secondary structure formation, 2831
Robustness, 2943
Rod photoreceptor, 2756
Rolling, 2671
ROS, 1291
5S rRNA, 3564
Rubidium ions, 928
Rubredoxin, 545
Ryanodine binding, 2655
Ryanodine receptor, 1065, 1079, 1674, 2319, 2655

S

S6 segment, 295
Saccule, 3457
Salt dependence, 3317
SAMs, 3218
Saposin C, 2043
Sarcoplasmic reticulum, 1079, 2655
SBFI, 4157
Scaling, 475, 1272
Scaling laws, 350
Scanning force microscopy, 665
Scanning microelectrode, 1031
SDF-1α, 171
Secondary active transport, 1651
Secondary and tertiary structure, 3285
Secondary structure, 1940
Secondary structure content, 1223
Selectin, 2671, 4182
Selection, 124
Selective aggregation, 1756
Selectivity, 1464, 1750, 1750, 2883
Selectivity filter, 2793, 2814
Self-assembly, 3501
Self-orientation, 3917
Semimicroscopic modeling, 2793, 2814
Semi-permeable barriers, 1010
Sensitivity, 3425
Sensory neuron model, 2700
Sensory rhodopsin I, 1902
Sequence entropy, 2553
Sequence specificity, 432
Sequence-specific hydrophobic interactions, 1352
Sequence-structure correlation, 2929
Serotonin type 3, 2338
SFM, 419
SGLT1, 3690
Shaker potassium channel, 295
Shal channels, 928
Shear stress, 2691
Shock wave, 3087
Shot noise, 2030
Side chain, 501
Sigmoidal, 3264
Signal transduction, 1410
Signaling, 3624
Silence analysis, 1701
Simulated annealing, 1057
Simulation, 14, 2192, 2345, 2700
Single channel conductance, 238
Single molecular biophysics, 967
Single molecule, 1, 588, 2366, 2990
Single molecule fluorescence, 1833
Single particle image analysis, 571
Single particle tracking, 400, 4127
Single turnover, 2450
Single-channel conductance, 1709, 2957
Single-channel recording, 1709
Single-molecule experiments, 2831
Single-molecule fluorescence spectroscopy, 1651
Single-molecule measurements, 733
Singular value decomposition, 794, 2112
Site hopping, 3959
Site-directed, 287
Size distribution, 4062
Size heterogeneity, 623
Size-distribution analysis, 2562
Skeletal muscle, 1065, 2450, 3816
Skeleton fence model, 842
Sliding filament mechanism, 757
Slow conformational mode, 1146
Slow variables, 1606

Small angle neutron scattering, 3904
Small-angle x-ray scattering, 489, 1419
Smooth muscle, 709
SNARE proteins, 408, 1527
Sodium, 1660
Solid-state NMR, 379, 552, 1263, 2382, 3052, 3326
Solvation, 1421, 3838
Solvent accessible surface, 2553
Solvent interaction, 770
Sonoporation, 3087
Sound waves in membranes, 3767
Space clamp, 3497, 3508
SP-B, 326
SP-B/SP-C, 1940
SP-C, 326
Specific recognition, 3037
Specificity, 124
Specificity amplification, 1410
Spectrin, 533
Spectroscopy, 1202, 3252
S-peptide analog, 3583, 4183
Spermine, 2293
Sphingomyelin, 1038, 2382, 3079, 3102
Sphingomyelin bilayer, 1507
Spike patterning, 2700
Spin label, 1025
Spin probes, 3190
Spin trapping, 1291
Spines, 2599
Spin-lattice relaxation, 558
SPM, 419
Spontaneous curvature, 1734
SPR, 4062
Stability, 1548
Stable, 3087
Stalk, 1784, 1808
Stark spectroscopy, 1299
Static light scattering, 578
Statistical mechanical model, 523
Statistical mechanics, 733, 842, 2831
Statistical potential, 1895
Steady-state anisotropy, 987
Steady-state fluorescence anisotropy, 599
Steered molecular dynamics, 2223, 3547, 3883
Step-scan, 1208
Stiffness, 3807
Stimulation, 3470
Stochastic global optimization, 869
Stochastic modeling, 28, 42
Structural damping, 2071
Structural DNA nanotechnology, 3829
Structure, 379, 552, 1969, 2357, 3894
Structure prediction, 1527, 1895
Structure-function relationship, 1773, 3022
STX, 2999
Styryl dyes, 2646
STZ-induced diabetes, 832
Subsarcolemmal Na, 4157
Sugar transport, 116
Sulfonylureas, 266
Superlattice, 3777
Superoxide, 69
Support vector machine, 967, 3257
Supported lipid bilayer, 408
SUR, 266
Surface, 3379
Surface aggregation, 3061
Surface charge, 3457
Surface electrostatics, 578
Surface FRET, 3992
Surface heterogeneity, 4062
Surface potential, 195, 2768, 4144
Surface pressure/area isotherms, 1940
Surface tension, 238
Surfactant, 1344
Surfactant protein B, 2169
Switch 1, 3190
Symmetry mismatch, 571
Synaptic depression, 1563
Synaptic plasticity, 1701
Synaptic transmission, 2234
Synchrotron radiation, 1093, 1228
Synechocystis hemoglobin, 3931
Synthetic peptide, 501
Systems analysis, 794

T

T84, 1660
Target analysis, 3240
Targeted molecular dynamics, 1926
Telomeres, 419
Temperature, 2533
Temperature jump, 1909
Tendon, 2593
Tertiary structure, 1919
Tertiary structure prediction, 869
Tetrodotoxin, 287
T-force, 4115
Theory, 733
Thermal bleaching, 588
Thermal denaturation, 1876, 1876
Thermal melting, 432
Thermal unfolding, 1867, 1919
Thermodynamic molecular switch, 1352
Thermodynamics, 124, 341, 386, 733, 1202, 3252
Thermophilic proteins, 2216
Thin filament, 1093, 3181
Thioflavin T, 279, 552
THP-1 cells, 2058
Threading, 1895
Three-dimensional QSAR, 2264
Three-dimensional structure, 655, 2585
Three-stage folding, 1902
TIM barrel, 1919
Tim complex, 2981
Time-resolved anisotropy, 987
Time-resolved fluorescence, 643
Time-resolved fluorescence anisotropy, 599
Time-resolved fluorescence spectroscopy, 3777
Time-resolved fluorescence techniques, 3061
Time-resolved infrared, 3874
Time-resolved x-ray structure analysis, 2112
TIRF spectroscopy, 2533
Titration curve, 2795
T-junction, 2181
Tm, 2393
TmCy, 2393
Tom complex, 2981
Tonic neuron, 4167
Toroidal model, 3751
Toroidal pore mechanism, 3052
Toroidal pores, 2242
Toroids, 419
Total internal reflection fluorescence microscopy, 1833
Toxin, 2382
TPNQ, 910
Tracking velocimetry, 2638
Transactivation response element, 643
Transdermal drug delivery, 1010
Transfection, 1750, 3307
Transfersome 1010
Transient, 3087
Transient absorption, 2508, 2517
Transient absorption spectroscopy, 1192
Transient pores in phospholipid bilayers, 1734
Transition metal, 419
Translocation, 2366
Transmissible spongiform encephalopathies, 1985
Transmonolayer contact, 1784
Transport, 3624
Transport receptor, 665
Traveling wave, 883Tricarboxylic acid cycle, 2734
Trinitrophenylation, 1047
Triple flash excitation, 3848
TrkA receptor, 2282
Tropomyosin, 897, 3155, 3168
Troponin, 897, 3168
Troponin-C, 82
TRPM7, 922
Truncation, 3636
Tryptophan, 1969
Tryptophan fluorescence, 599
TTX, 2999
Tube, 2593
Tubular structure, 1950
Tween 20, 1734
Two-barrier model, 2990
Two-dimensional crystallization, 2483
Two-dimensional FT-ESR, 3364
Two-electrode voltage-clamp, 3690
Two-photon excitation, 588
Two-photon microscopy, 2599
Type II diabetes mellitus, 3480
Tyrosine, 960

U

Ultradeformable carriers, 1010
Ultrafast spectroscopy, 440, 450
Ultrafiltration, 1960
Ultrasensitive, 154
Ultrasensitivity, 1410
Ultrasound, 3087
Unbinding force of single kinesin-micro-

tubule complex, 1103
Unfolding, 533, 2149
Unfolding models, 770
Unrelaxed photochemistry, 2492
Unstirred layer, 1031
Unusual DNA motifs, 3829
Uptake, 3087
Use-dependence, 2999

V

Vacuole, 977
Valine dynamics, 1263
Vanadate complexes, 634
Vanilloid receptor, 2957
Vapor diffusion, 1218
Vapor pressure, 341
Variance analysis, 1701
Veratryl alcohol, 3883
Vesicle, 2005
Vesicle pools, 1563
Vibrating microelectrode probe, 1387
Vibrational imaging, 3968
Vibrational modes, 82
Vimentin, 2691
Viral membrane protein, 3276
Virtual electrode, 3470
Virus, 3894
Voltage, 466
Voltage clamp, 2416, 3497, 3508, 4157
Voltage gating, 977
Voltage sensor, 251
Voltage-dependent inactivation, 696
Voltage-gated, 195
Voltage-gated Ca^{2+} channel, 1709
Voltage-gated K^+ channel, 928, 3022
Vpu, 2393, 3276

W

Water deuterium NMR relaxation, 102
Water dynamics, 102
Water oxidation, 1370
Water permeability, 1025
Water structure, 1228
Water transport, 116
Water wire, 238
Weak coupling method, 3583, 4183
Wheat seeds, 2416
Worm-like chains, 2562
Writhe, 1131

X

Xanthophylls, 2517
Xenopus laevis, 1580
Xenopus oocyte, 1709, 3022, 3690, 3717
X-ray diffraction, 1038, 1093, 2021, 3307
X-ray radiolysis, 2474
X-ray reflectivity, 2393
X-ray scattering, 306

Y

Y-ordering, 3364

Z

Z-DNA, 419
Zero-order, 154